



PAT MCCRORY

Governor

DONALD R. VAN DER VAART

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MICHAEL E. SCOTT

Acting Director

June 17, 2016

Michael Sabodish, Jr., Ph.D, P.E.
Project Manager
Froehling & Robertson, Inc.
310 Hubert Street
Raleigh, NC 27603

Re: Request for Work Plan & Cost Proposal for Task Order **787DP-12**
Groundwater Monitoring and Reporting
Rocky Knoll School Site
1231 Benbow Rd, Durham, Durham County, NC
ID# NONCD0000787

Dear Dr. Sadodish:

Submit a task work plan and cost estimate to perform remedial investigation-contaminant delineation phase activities at the above referenced site. Conduct these activities in accordance with your State Contract **N15001i**.

Investigation Goals: Conduct a groundwater monitoring at selected permanent monitoring wells (from existing permanent monitoring wells).

Scope of work for Task Order 787DP-12A:

- Prepare a work plan in accordance with **F&R**'s approved standard operating procedures dated **xxxxxx, 2016**, and include a schedule of daily activities.
- Submit an itemized cost estimate that identifies personnel and materials involved.
- Reference the most recent Guidelines for Addressing Pre-Regulatory Landfills and Dumps for details regarding procedures
- Ensure personnel in the field are qualified to identify contaminated material and landfill waste and comply with OSHA-required health and safety training.
- Before task activities begin, photograph areas or objects that may be disturbed. If needed, photograph affected areas and objects, restoration efforts, and noteworthy items encountered during task activities. Submit these photographs upon completion of the activities, and a review will determine if any need to be included in the report.
- Collect GPS coordinates along the waste disposal boundary. Report coordinates in decimal degrees to the seventh order using the North American Datum of 1983 (NAD83) format and latitude and longitude using WGS 84 format. These coordinates will be tabulated and included as an appendix. The tabulated coordinates for the landfill perimeter should start at the northernmost point of the perimeter and be listed in a clockwise progression around the perimeter.



- Include background (light grey) topographic contour lines on figures detailing the Site and Site vicinity.
- For any invasive activities, provide a plan to properly manage investigation derived waste (IDW). If sampling results indicate non-hazardous IDW, spread within the waste disposal area. If sampling results indicate hazardous IDW, analyze containerized waste as required by waste hauler and include details of sampling and disposal of drums in the proposal. Remove all drummed waste and associated fencing from site within 90 days after field activities are concluded.
- For any field work, minimize the clearing of vegetative material to enable access to proposed sampling points. Using hand tools for clearing is the preferred method, otherwise an explanation must be provided for use of heavy equipment.
- Submit samples to a North Carolina-certified laboratory and analyze for the following parameters by the most current U.S. EPA Contract Laboratory Program Target Compound List: volatile organic compounds by SW-846 method 8260, 1,4-dioxane by Method 8260SIM, semi-volatile organic compounds by SW-846 method 8270, 14 metals by SW-846 method 6020, mercury by method 7471, ammonia by SM 4500, and nitrate and sulfate by EPA Method 300. Please note that any alternate method should be the U.S. EPA Method having the lowest detection limit and that at least achieves the detections equivalent to the 15A NCAC 2L standards or where these are not available, then federal maximum contaminant limits (MCLs). Soil analysis methods must meet the IHSB Preliminary Soil Remediation Goals Table. Initial samples also need 10 Tentatively Identified Compounds (TICs).

Note: once all contaminants are determined, laboratory analysis may be reduced to those positively identified contaminants.

Subtask Order 787DP-12B: Groundwater Monitoring:

- Collect and analyze groundwater samples from each of the following the 8 existing permanent groundwater monitoring wells (MW- 1~8, see **Attachment 1**).

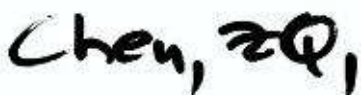
Subtask Order 787DP-12C:

Assemble a Reports (787DP-12) under the asked Order. Name the reports: “*Remedial Investigation: Confirmation Groundwater Monitoring*” that provides the information in and results of the activities. Upon review and approval of the cost proposal, a task authorization to proceed will be issued. Please note that the report should contain the following items:

- a). A section concerning any variations from the work plan or your SOPs.
- b). Sample analytical results tables indicating BDL or ND for non-detects. Present results to match the lab report.

Provide the work plan and cost estimate in seven (7) days after receiving this request. A task authorization to begin work will be provided once my review is completed. Please call me at (919) 707-8347 with any questions regarding this request.

Sincerely,



Ziqiang Chen, PhD, Environmental Engineer II
Division of Waste Management, NCDENR

